FEED WATER HEATER TESTS ARE PROVING SUCCESSFUL

Invention in Which Copper Country Men Are Interested Saves One-Fifth of Fuel on South Shore Road Locomotives.

being made of his invention continue standing. to show a saving by its use of from "Under ideal conditions, of opera-15 to 20 per cent, in fuel, but that tion," says President Goss, "much of animously by the members, no definite arrangements will be made the fuel used could be saved, and it is for the manufacture of the heaters on reasonable to expect that the normal a large scale, until it has been tested process of evolution in railroad prac- Kerr of Calumet have announced out for ten months or more in order ties will tend gradually to bring about themselves as candidates for the ofbrought out by continuous service.

No Sparks or Cinders.

Currie heater that its use does away item will in time be overcome. with a locomotive throwing sparks and cinders out of the stack, which is by the requirement that the boiler one of the most common causes of for- and all its appurtenances must come est fires. Tests have shown that the within rigidly defined limits of space percentage of fuel saved by the heat- and by the fact that they are forced er is greatest when the locomotive is to work at very high rates of power, heavily loaded or on an up-grade trip. "Notwithstanding this handleap, the Another advantage claimed for the gone of practicable improvement which invention is that it catches most of lies between present-day results and the dirt and foreign substances in the those which may reasonably be rewater, which now are deposited in the garded as obtainable is not so wide as main boiler, necessitating frequent to make future progress rapid or eleaning.

the governing geological survey dis. savings, cussing the railroads' enormous fuel "It is apparent that the utilization McGrew and I. Pemberthy.

were consumed by the 51,000 becomes ply." tives in the United States in 1906. in hauling freight and passenger trains. This fuel cost the railroad companies \$170.500,000 says the bulletin.

Large Percentage Lost, Professor W. F. M. Goss, now dean sant of the University of lilinois who had

Choice selection of the famous "How. ard" watches at the "old lewelry house of Hermann's, Also all profusion from \$8.00 up.

statement that of the total \$6,000,000 tons of coal used, 10,050,000 tone are lost through the heaf in the gases that are discharged from the stacks of the locomotives; 8,640,000 tons are lost through cinders and sparks; 5,on the Duluth, South the locamotive to its train, in backing sressman, says the Keweenaw Miner. Shore and Atlantic railway for the trains into or out of sidings, and in

The company organized by Mr. discharged gases offers an attrac- recognizing as we do, the ability of Currie, which is largely composed of tive field to those who would improve each candidate to perform the duties copper country men, is now planning the efficiency of the boiler. The fuel of the office for which he is a candito introduce the heating device on one loss in the form of cinders passing date: or two of the Canadian roads as well out of the stack is very large and may. as several in this country. The Cur- readily be reduced. A sure road to Board of Supervisors of Keweenaw ric heater is a device by which the wa- improvement in this direction lies in County, here assembled, at a regular ter is heated to near the bolling point an increased grate area. Opportuni- meeting, that we fully endorse the canbefore it enters the main boiler of the ties for incidental saving are to be becomotive, thus saving the fuel or- found in improved flame ways such dinarily needed to heat the cold water. as are to be procured by the applica-The heat for the heater is supplied tion of brick arches and other de- of the 12th Congressional district, as from exhaust steam. Eventually, it is vices. Such losses may also be reintended to adapt the invention to sta- duced by greater care in the selection tionary engines as well as locomotives, of fuel and in the preparation of the Governor of Michigan, and Congressfuel for the service in which it is in addition to saving practically used. It is not unreasonable to expect one-fifth in fuel, it is claimed for the that the entire loss covered by this

"Locomotive bollers are handicapped

waste are of special interest, as the of fuel in locomotive practice is a

AN ABLE ASSISTANT.

Mrs. Brown-We're so glad to see you give all the scraps to the cat, Su-

The New Treasure-Wot I see, mum save 'art your washing up.-Tit-Bits.

MODERN ENOCH ARDEN

been all these years?

Returned Deserter-Where should I be out electroring the north role?

The Holiday Season

try to remit large sums at this season to the old homes in Europe.

try us. We promise quick service, absolute safety, and certain deliv-Our whole capital and credit stands behind every transaction. The young man at the window is very obliging.

The First National Bank OF CALUMET

For Xmas Bargains

Cub's Billiard Parlors

A Fine Line of BOX CANDIES,

CIGARS, PIPES, TOBACCOS, Etc.

Ask for Your Coupons, they are Your Share of the Profit

> COUPONS REDEEMABLE IN OUR LARGE PREMIUM DEPARTMENT

332 Fifth Street,

KEWEENAW COUNTY BOARD ENDORSES OSBORN AND KERR Interesting Play Will Be Presented at

040,000 tons are lost through radiation, leakage of steam and water; 2,880,000 on Tuesday last and transacted the tons are lost through unconsumed fuel regular routine business. In addition in the ashes, and 720,000 tons are lost to the regular business the "board" John W. Currie of Minneapolis, in- through the incomplete combustion of passed a resolution endorsing the canventor of the Currie feed water heater guses. In addition, 18,000,000 tons are didney of Chase S. Osborn for Goverconsumed in starting fires, in moving nor, and Angus W. Kerr for Con-

The following is the resolution as last six months, states that the tests keeping the locomotive hot while named by the hoard, it being offered by Supervisor Sawyer, and supported by Supervisor Clark, and adopted un-

Osborn of the Soo, and Angus W. to discover and overcome any weak some reduction in the consumption fices of Governor of the State of Michigan, and Congressman of the brought out by continuous some reduction in the consumption fices of Governor of the State of Michigan, and Congressman of the brought out by continuous some reduction in the consumption fices of Governor of the State of Michigan, and Congressman of the "The loss represented by the heat of Twelfth district, respectively and

Now, therefore, he it resolved by the didacy of both gentlemen, and recommend them to the best consideration man of this district, in a manner which can admit of no criticism."

EDUCATIONAL INSTITUTE IS ORGANIZED AT THE Y. M. C. A.

Class Being Organized to Take Up Show Card Lettering and Writing-Twelve Lessons in All-What They Consist Of.

The Y. M. C. A. has organized what is known as an educational institute, easy. Material improvement is less courses along educational lines. E. J. In connection with Mr. Currie's in- likely to come in large measures as Hall is principal of the institute, and vention, facts contained in a recent the result of revolutionary changes G. D. Westerman secretary. The combuiletin of the technologic branch of than as a series of relatively small mittee consists of Edward Woodward. A. D. Nicholas, William Tonkin, D. R.

Currie device bids fair to be a step problem of large proportions, and that up the work of show card lettering and has captured the \$40,000 Nobel prize in the conservation of the railroads if even a small saving could be made writing. John Hebert, who has been for literature, These prizes are started, promises to be a big boost fuel, which is alleged to be predigally by all or a large proportion of the loco- named as instructor, has had wide ex- awarded annually to those persons for the playgrounds movement. The motives of the country it would con- perience in the work. The course will who are considered to have conferred following relative to the Washington Ninety million tons of coal, one fifth stitute an important factor in the con- open on January 5, and will constitute the greatest benefit on mankind durof the total production of the country, servation of the nation's fuel sup- twelve lessons. The sessions will be in the preceding year through the evening, from 7.30 to 9.30 p.m.

> any time at the Y. M. C. A. office. All Nobel foundation, was provided by the of attendance at the ten municipal interested are invited to inspect the will of Dr. Alfred B. Nobel, the Swe- playgrounds during the season just -be good to the cat, and you may association. The course is open to all in 1896. men, who are, or will become, mem

trate Wie So you have come turned with the rend with interest by those Self-Supporting Woman Who Would anticipating thicing up the study; Lesson 1.—The proper utensils good show card writing. Brush work. Stroker and curves, and how to make their property.

> Leason III .- Brush work, Retouchsingle stroke capitals and lower The selection of proper card-

nd spacing. Lesson V.-Brush work. Roman wer case and block numbers. Penork. Use of the Scennecken pen

narking pen. Flat stroke lower case. Lesson VIL-Pen and Brush work. Outlining Roman letters, script alphaet, capitals, lower case and numbers. Lesson VIII.-Brush work. How to hade the block. Roman and script

Lesson IX .- Review of brush and n work. How to make ruling paterns for show cards, ruling edge lines

We Got It!

Monday, Dec. 20 "Life of Moses"

ers, D. D., eminent New York divine. In the biblical history of the world, if here is no one personality which tands out so prominently as that of his race. The bible story of this great man is profoundly interesting and filled with events of the highest dramatic va'ue, especially well adapted to the requirements of moving picture art. The rich costuming and the pageantry of the East afford untold opportunities for the picture maker to display his skill, and the scenes simulated are wonderfully grand and awe-inspiring Enhancing these dramatic and scenic calues is the divine inspiration which

In addition to the "Life of Moses"

clothes the subject, commanding the

most profound reverence of all civil-

3-Mighty Fine Pictures-3

"ST. ELMO" HERE TONIGHT.

the Calumet Theater.

Announcement that "St. Elmo," interesting romance, is booked for stage version possible. Fascinated by novel, Miss Grace Hayward, herself an actress from early girlhood, set to work wenderful story. That she has succeeded in building a cohesive, thrilling play, teeming with heart interest, and with all the dramatic unities preserved in threading the stirring incidents which fill the chapters, is the testimony of many who have had

CAPTURES NOBEL PRIZE.



SELMA LAGERLOF.

London, Ohlo, Dec. 20.-Woman's brain has triumphed again. Selma grounds commission be created, A class is being organized to take Lagerlof, the Swedish woman writer, compilation of the annual report of held once each week, on Wednesday instrumentality of the subjects men-The cest of the entire course is \$5, for the best effort toward the fratornstudents to select materials for the ity of nations and the promotion of work. Enrollment may be made at peace. The source of the priges, the show card exhibit in the lobby of the dish engineer and chemist, who died closed.

Succeed Should Be Well Dressed.

make in the world, whether in social representative degree. or business circles, must recognize that dress is one of her chief assets, a writer in the Delineator says. The efficiency of a saleswoman, a stenographer, a teacher-in fact of any womoard and a study in color harmony.

Lesson IV.—Brush work. Outlining a sign of ill-success and it is a population. an who works-is judged by her dress, one to the southwest. lar if somewhat fallacious theory that playgrounds now open—the First street ers

is what financiers call "a good risk" -an investment that is almost certain

travagance in dress except for women gance is more than excusable—it is justifiable. It keeps money in circulation that would otherwise be idle. It gives legitimate employment, which is the wisest and most beneficent form of charity, to women who need work. But for women in moderate circum

stances a parsimonious attitude toward dress is a false and often fatal economy. If you want to succeed in thus expediting the working out of an anything, look successful, able, competent. Otherwise you can never inspire confidence in others, and to look successful, prosperous, assured, you must be well dressed.

and borders. Initial letters, Letters X .- Review of brush and per work. The use of dry colors, bronze, flitter and flock to decorate show cards:

pen work. The use of the atomizer and spatter work to imitate air brush Lesson XII.-Review of brush and pen work. Novelty show cards. Rais-

XMAS PIANOS.

ok around before "biting" at the big places. discount planes. It certainly will do no harm to see the large line of pianos said this morning that he is anxious to shown by the old reliable house of see a speedway built, and is doing Hermann's, before you make a final cock, or possibly at both places. decision. We do not ask a first grade price for a fifth grade plane and then said this morning that he is anxious to drop on some filmsy excuse to the best see a seedway built, and is doing LEIKAS & Co. price you can be pulled for. A visit to everything he can to promote the

LAURIUM

ALARMING SAYS DETROIT DR.

"People of Detroit and Michigan may rest assured there is no dange from the Finnish reindeer driver now supposed to be suffering from leprosy in this state."-Dr. Andrew P. Biddle.

Cases of leprosy are rare in Michi gan and the case of Maurelius Jensen of Calumet, is being very closely watched by Michigan physicians, says the Detroit Journal.

Dr. Andrew P. Biddle, a Detroit authority on skin diseases who has been and studied leprosy cases in Cuba, makes the emphatic statement that the danger of the spread of leprosy among the neighbors of the Pinn in Calumet is practically nil.

Dr. Shumway, secretary of the state board of health, who has the case directly in charge, says that the disease is not so contagious in Michigan because the climatic conditions are unfavorable.

"I do not know that the climatic conditions here would have so much to do with preventing the spread of the disease," said Dr. Biddle, "but know that if the patient is isolated and given proper care and medical attention there is hardly any danger of the disease spreading. Down in Cuba the stricken natives mingl with the clean people in the most careless manner. The lepers are sup posed to be isolated, but the prohibited lines are not very strictly drawn. I never had a chance to study a case of leprosy in Michigan, but I do not think there need be any fear of the disease spreading.

VALUE OF PLAYGROUNDS.

ashington Report of Interest Be cause of Local Movement.

Supplementing the recommendation of the directors of the Washington Playgrounds Association that a play the association, which is just being established on the Yotti estate protioned. An additional prize is given perty at the corner of First and Hecla streets next summer:

The most striking feature connected with the report so far is the showing From June 29 to November 1, according to the report, the attendance was more than 400,000. In the corresponding period last year it was

This is all the proof needed, say officials of the association, that the movement is growing and is proving sufficiently popular with children, to insure the youth of the city being ben-Any woman who has her way to efited by healthful exercise to a fairly

With such results achieved during the past season, the announcement is made that three new playgrounds will be opened up, probably two of them business trip to Chicago and other going to the north-west section, with cities.

corded daily at the only two municipal morning, when a class of probationstreet and New York avenue grounds. In reviewing the year's work, offi- being paid very slowly. Clerk Prisk an executive standpoint, in view of the difficulties confronted at the opening

Vice President Arthur C. Moses said cording to Treasurer Baggiore. of large means. With them extrava- the support given the movement, not only by individuals, but by firms and organizations of every character indicated the favor with which the work

> The value to the citizenship of the future by giving children the advantage of plenty of exercise is incalcul- skating thoroughly enjoyed. able, said Mr. Moses, and this fact is becoming more generally appreciated, up-to-date, comprehensive, municipal playgrounds system, such as shall be commensurate with the needs of the

appointment of a playgrounds commission to be under Government control, will meet with the approval of it draw."-Bystander. the House committee to which it has been forwarded by the Commissioners is believed to be assured.

THAT SPEEDWAY PROJECT.

Matter May be Brought Before Council at Next Meeting.

There will be a meeting in the future of Calumet horsemen, for the purpose of talking over the speedway proposition. It has been practically decided to build a speedway in Laur-Piano purchasers will do well to tum or Hancock, or possibly at both

A prominent owner of fast h

our Plano rooms does not obligate you scheme. It is likely that the matter to buy and may save you many dollars will be placed before the Laurium viland years of dissatisfaction. Think it lage council at its next regular meet-

A Smoking Jacket or BATH ROBE

There is nothing that a man enjoys more.

We have a fine selection of

Blanket and Terry Robes from \$4.50 to \$10.00

Why not get a box of 1-2 dozen pairs

Holeproof Sox

in assorted colors, guaranteed against holes for six months, \$1.50 per Box.

Neckwear from 25c to \$1.50

ED. HAAS & CO.

CALUMET

HOUGHTON

FOR RENT.

FOR RENT-Two rooms at reasonable rates. 203 Pewable street, Lau-

FOR SALE.

FOR SALE-New plane usually retailed for \$300 for \$140. Aug. Espel, opp. Sacred Heart school, Laurium. X

Jas. Brennan has arrived with carload of fresh milch cows which he has for sale at 426 Pine st., Calumet

FOR SALE-30 head of fine milch cows Saturday. Greenshields' Sale Stable. Cor. 3rd and Boundary, Laurlum, phone 193.

LOST AND FOUND.

LOST-Between Laurium and Tamarack, gold bracelet, Finder return Calumet News office. Beward.

place for a speedway. It is nearly mile in length and without a turn.

LAURIUM BREVITIES.

Mrs. Fred Mans, of Menominee, the guest of her sons, Charles and Johnson Vivian has returned from a

A special service was held at th Such heavy attendance is being re- Laurium M. E. church yesterday

Frank Williams, superintendent of

not be altogether just or fair, but it they will be closed. Favorable wea- the Laurium M. E. Sunday school, has failure, your ability and character are this long, as the average daily atten- ions to the school during the week, appraised by the clothes you wear. If dance at the Georgetown grounds has so that at least 25 Christmas baskets were starting in business-I don't been more than 400, with fully half may be made up for deserving poor of The water taxes for the village ar-

> cials of the association regard it as is making an effort to get all of the having been usually successful from taxes in this week, so that he can close the books before the first of the year. The real and personal estate taxes are also coming in slowly ac

> > country points, where he will spend th holidays, Both the Palestra and Red Jacke skating rinks were well patronises Saturday afternoon and evening. The ice was in excellent condition,

> > > LIKE A CIGAR.

"A play," remarked the theatrica manager, "is like a cigar." "What's the answer?" inquired

innocent reporter. "If it's good," explained the manager 'every one wants a box; and if it's bad, no amount of puffing will make

"Some folks keep their umbrel'n a n long time after the rain is over for the puppus uv coaxin' symperthy."-

COLLEGES.

Michigan College of Mines F. W. McNAIR, President. Located in the Lake Superior dis trict. Mines and mills accessible for

College work. For Year Book and Rec-

ord of Graduates apply to President or HOUGHTON MICHIGA

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Souvenir Post Gards Writing Materials Fancy Stationery

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JACOB KALLIO 418 Fifth St., Calumet, Undertaker and Funeral Director. Lady and Gentleman Embalmer. Only lady embalmer in Houghton Co. Phone parlor 98-1R night and day.

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Calls given prompt attention.

Phone Res 98-2R.

A. FAHLEN & CO.

JEWELERS WATCH REPAIRING A SPECIALTY Complete Stock of First Class Jewelry 407 Fifth St. :: Calumet

DENTISTS.

National Dentists Dr. C. E. SHELDEN, Mgr. LISA BLOCK

301 Sixth St. CALUMET TAILORS.

Tailored Clothes to Measure J. J. Werschay

S. E. Corner Oak & 5th St., Upstairs.

SHIRTS AND UNDERWEAR TO ORDER

MUSICAL INSTRUMENTS. J. E. FOISY, MUSIC STORES VICTOR, COLUMBIA and EDISON **Talking Machines and Records** 320 Hecla St., Laurium. Phone 324 J1.

441 Fifth St., Calumet. Phone 503 J1.

INSURANCE AND REAL ESTATE. Phone No. 1 Office 208 Fifth St. SCHNELLER & LAWRENCE FIRE, LIFE, ACCIDENT AND PLATE GLASS INSURANCE

BAKERIES.

Real Estate and Loans

Calumet

CROATIAN--SLOVENIAN - BAKERY :

German Rye and Vienna Bread, Cakes, Fancy Cooking to Order.

FLOWERS AND PLANTS.

813 Portland St. Near Freight Depot.

All choice owers in season, When in need try ours. Correspondence with outside parties who desire first class stock invited. Send for quotations. Hancock: Laurium Branch: Cor. 3rd & Osceola Sts. Quincy St. Phone 175 1r. Phone 482.

MUSIC INSTRUCTION.

CONRAD SAGEMILLER. Teacher of violin, mandelin, piano, cornet and all wind valve instruments Prices reasonable. Satisfaction guaranteed. Orchestra music furnished for

over and let us show you. x ing when some action may be taken. Florida street, Laurium, is an ideal 429 FIFTH ST., CALUMET Centennial Mine, Calumet. all occasions, 3416 Conglomerate st.

This movement of money grows with leaps and bounds as the years money orders at this bank know the advantage of it, but some who do

The only way to judge of the way of our ability to serve is to

We make cable and telegraph transfers also, Faithfully yours,

Calumet

"Whereas, it appears that Chase S.

of the voters of Keweenaw County and we recognize, that they are thoroughly qualified to discharge the duties of

of the association.

Lesson U. Brush work. Single troke capitals, and lower case alpha-

Flat stroke capitals, Lesson VI.-Pen work. Use of the

etters and numbers.

ve eliminate the divinity of Christ,

CLOTHES A BUSINESS ASSET

real merit and ability always succeed. and New York avenue (northwest), of Painesdale, made a short ad-Carclessness is quite as blighting to and the Georgetown grounds-that no dress. one's prospects as shabbiness. It may decision has been reached as to when is true that wherever you go your so- ther has been the determining feature made arrangements with the members cial position, your income, success or largely in their having been kept open of the school classes to bring proviscare in what capacity—and had only that number registering at the First Laurium. a very little money to invest, I would put it into clothes-clothes that were suitable, attractive and well made. It

I don't for a moment advocate ex- of the season.

Lesson XL-Review of brush and work. Mat cutting and labeling. ed lettering. Signs that a card writer

should know how to make.